

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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SERIAL NUMBER: n/a

DATE FILED: n/a

TITLE: METHOD AND APPARATUS FOR MONITORING DYNAMIC  
CARDIOVASCULAR FUNCTION USING N-DIMENSIONAL  
REPRESENTATIONS OF CRITICAL FUNCTIONS

ATTORNEY DOCKET: 4315 P

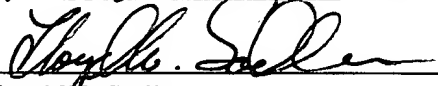
Assistant Commissioner for Patents  
Box PATENT APPLICATION  
Washington, DC 20231

**INFORMATION DISCLOSURE STATEMENT**

Honorable Assistant Commissioner:

Applicants' attorneys performed a patent search with regard to the present invention. Applicants have identified all materials that they are aware of which may be either prior art to the invention or that may be relevant to the background of the invention. All such materials known to Applicants and Applicants' attorneys are identified on the PTO-1449 attached hereto. A copy of all such materials shall be submitted as soon as clean copies are available. Applicants believed their invention is patentable over these materials.

Respectfully submitted this 10<sup>th</sup> day of October, 2000,

  
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# INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY DOCKET NO.  
4315 P

SERIAL NO.  
n/a

Agutter et al.

FILING  
10 Oct ber 2000

GROUP  
n/a

EK916940717US

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	3,908,640	09/30/75	Page	128	2.05 T	11/25/74
	4,193,393	03/18/80	Schlager	128	710	08/25/77
	4,464,122	08/07/84	Fuller et al.	434	262	12/02/82
	4,519,395	05/28/85	Hrushesky	128	671	12/15/82
	4,619,269	12/28/86	Cutler et al.	128	719	04/11/84
	4,832,038	05/23/89	Arai et al.	128	670	01/20/87
	4,875,165	10/17/89	Fencil et al.	364	413.22	11/27/87
	4,880,013	11/14/89	Chio	128	681	03/24/88
	4,930,518	06/05/90	Hrushesky	128	671	09/26/88
	4,989,611	02/05/91	Zanetti et al.	128	695	08/19/88
	5,012,411	04/30/91	PolICASTRO et al.	364	413.06	07/23/85

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


EXAMINER

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09/689225



## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,103,828	04/14/92	Sramek	128	668	11/28/90
	5,162,991	11/10/92	Chio	364	413.03	03/08/89
	5,222,020	06/22/93	Takeda	364	413.03	04/13/90
	5,224,481	07/06/93	Ishahara et al.	128	660.07	09/06/91
	5,425,372	06/20/95	Takeda	128	672	06/22/93
	5,568,811	10/29/96	Olstad	128	660.07	01/13/95
	5,626,141	05/06/97	Takeda	128	672	06/02/95
	5,634,461	06/03/97	Faithfull et al.	128	637	06/07/95
	5,836,884	11/17/98	Chio	600	485	12/17/93
	5,913,826	06/22/99	Blank	600	500	06/12/96
	5,961,467	10/05/99	Shimazu et al.	600	485	04/01/97

## FOREIGN PATENT DOCUMENTS

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						YES	NO

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,042,548	03/28/00	Giuffre	600	483	11/14/97
	6,090,047	07/18/00	Kass et al.	600	485	11/03/97

## FOREIGN PATENT DOCUMENTS

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